

### **ABSTRACT OF THE DISCLOSURE**

A cooling arrangement for an X-ray tube of the type having a housing having an interior space in which the anode is disposed, and a projection in which the cathode is disposed, the projection being connected to the interior space by a neck region, includes channels for coolant flow formed by an electron beam deflector that has a U-shape with legs that straddle the exterior of the neck region. Each leg of the electron beam deflector has a surface that faces an exterior corner of the housing formed by the projection, so as to form, in combination with the corner, a channel for coolant flow therethrough. A nozzle for discharging coolant can be provided at one end of each channel.

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